

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032823\
 Data File : VX034775.D
 Acq On : 28 Mar 2023 03:11
 Operator : JC/MD
 Sample : 01627-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT1-2023

Quant Time: Mar 28 09:22:04 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 28 09:11:00 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Krupa Patel 03/29/2023
 Supervised By :Semsettin Yesilyurt 03/29/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.903	128	26765	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	189004	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	200920	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	78023	30.339	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.133%			
60) 4-Bromofluorobenzene	11.079	95	111677	27.817	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 92.733%			
63) Toluene-d8	8.647	98	208922	30.598	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.000%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	12053	4.748	ug/l	96
3) Chloromethane	1.294	50	16407	4.984	ug/l	100
4) Vinyl Chloride	1.374	62	16437	5.061	ug/l	97
5) Bromomethane	1.617	94	12173	5.699	ug/l	99
6) Chloroethane	1.691	64	10001	4.732	ug/l	91
7) Trichlorofluoromethane	1.886	101	26589	5.140	ug/l	98
8) Diethyl Ether	2.136	74	9456	5.078	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.331	101	13121	5.000	ug/l	95
10) 1,1-Dichloroethene	2.325	96	13158	4.953	ug/l	92
11) Methyl Iodide	2.453	142	14728	4.353	ug/l	95
12) Methyl Acetate	2.703	43	29685	5.046	ug/l	98
13) Acrolein	2.239	56	17413	25.523	ug/l	99
14) Acrylonitrile	3.068	53	42122	26.000	ug/l	99
15) Acetone	2.392	58	11561	26.286	ug/l	96
16) Carbon Disulfide	2.514	76	30627	4.507	ug/l	99
17) Allyl chloride	2.666	41	24731	4.811	ug/l	96
18) Methylene Chloride	2.788	84	16468	5.262	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	14267	4.908	ug/l	95
20) Diisopropyl ether	3.757	45	53689	5.098	ug/l	89
21) 1,1-Dichloroethane	3.611	63	27782	4.933	ug/l	97
22) cis-1,2-Dichloroethene	4.495	96	16785	4.957	ug/l	99
23) tert-Butyl Alcohol	3.007	59	20082m	27.551	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	49895	5.054	ug/l	96
25) Chloroform	5.092	83	28519	4.979	ug/l	99
26) Cyclohexane	5.470	56	25803	5.229	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	20647	4.750	ug/l	99
30) 2-Butanone	4.568	43	59946	24.727	ug/l #	97
31) 2,2-Dichloropropane	4.471	77	18175	4.123	ug/l #	83
32) 1,1,1-Trichloroethane	5.385	97	23250	4.559	ug/l	97
33) Carbon Tetrachloride	5.678	117	18846	4.478	ug/l	98
34) Benzene	6.037	78	61814	4.893	ug/l	96
35) Methacrylonitrile	4.928	41	12512	4.715	ug/l	94
36) 1,2-Dichloroethane	6.092	62	23827	4.811	ug/l	99
37) Trichloroethene	7.123	130	15232	4.738	ug/l	90
38) Methylcyclohexane	7.385	83	22509	4.739	ug/l	98
39) 1,2-Dichloropropane	7.433	63	15312	4.663	ug/l	96
40) Dibromomethane	7.586	93	10482	4.647	ug/l	97
41) Bromodichloromethane	7.824	83	18358	4.321	ug/l	99
42) Vinyl Acetate	3.721	43	181302	22.924	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	24249	5.157	ug/l #	92
44) Isopropyl Acetate	6.342	43	36457	4.580	ug/l	100
45) 1,4-Dioxane	7.720	88	8378	106.245	ug/l #	63
46) Methyl methacrylate	7.696	41	17643	4.549	ug/l	95
47) n-amyl Acetate	10.841	43	26548	3.837	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	17841	3.854	ug/l	94
49) cis-1,3-Dichloropropene	8.366	75	20561	4.043	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	15351	4.885	ug/l	95
51) Ethyl methacrylate	9.116	69	22624	4.436	ug/l	98
52) 1,3-Dichloropropane	9.311	76	27034	4.870	ug/l	98
53) Dibromochloromethane	9.518	129	12233	3.935	ug/l	96
54) 1,2-Dibromoethane	9.610	107	14988	4.459	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	60409	22.506	ug/l	99
56) Bromoform	10.799	173	7362	3.435	ug/l	96
58) 4-Methyl-2-Pentanone	8.573	43	114368	24.827	ug/l	99
59) 2-Hexanone	9.433	43	84024	24.225	ug/l	100
61) Tetrachloroethene	9.275	164	14000	5.171	ug/l	98
62) Toluene	8.720	91	65647	4.997	ug/l	98
64) Chlorobenzene	10.079	112	39561	4.890	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	12812	4.430	ug/l	99
66) Ethyl Benzene	10.195	91	71917	4.915	ug/l	100
67) m/p-Xylenes	10.299	106	51969	9.334	ug/l	99
68) o-Xylene	10.640	106	26452	4.804	ug/l	99
69) Styrene	10.658	104	40681	4.482	ug/l	99
70) Isopropylbenzene	10.963	105	67306	4.723	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	21903	4.676	ug/l	96
72) 1,2,3-Trichloropropane	11.238	75	20045m	4.701	ug/l	
73) Bromobenzene	11.195	156	15939	4.658	ug/l	95
74) n-propylbenzene	11.305	91	75141	4.530	ug/l	99
75) 2-Chlorotoluene	11.366	91	49501	4.787	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	55204	4.602	ug/l	99
77) t-1,4-Dichloro-2-butene	11.024	75	3802	2.904	ug/l	88
78) 4-Chlorotoluene	11.457	91	54061	4.560	ug/l	99
79) tert-butylbenzene	11.713	119	52756	4.607	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	53106	4.455	ug/l	97
81) sec-Butylbenzene	11.890	105	62834	4.529	ug/l	98
82) p-Isopropyltoluene	12.012	119	50933	4.350	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	29926	4.631	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	30521	4.703	ug/l	96
85) n-Butylbenzene	12.335	91	41035	4.067	ug/l	100
86) Hexachloroethane	12.536	117	6737	3.513	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	28984	4.583	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	12.945	75	3407	3.329	ug/l	98
89) 1,2,4-Trichlorobenzene	13.591	180	15894	4.190	ug/l	98
90) Hexachlorobutadiene	13.725	225	6077	4.154	ug/l	95
91) Naphthalene	13.774	128	59159	4.414	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	17122	4.515	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

